

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of (Form PCT/ISA/2	f Transmittal of International Search Report 20) as well as, where applicable, item 5 below.		
P22196A/B0U International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/GB 00/02290	23/06/2000	23/06/1999		
Applicant MILLIKEN INDUSTRIALS LIMI	ΓED et al.			
This International Search Report has beer according to Article 18. A copy is being tra	prepared by this International Searching Auth Insmitted to the International Bureau.	ority and is transmitted to the applicant		
	of a total of sheets. a copy of each prior art document cited in this	report.		
Basis of the report a. With regard to the language, the is language in which it was filed, unle	ntemational search was carried out on the bas ass otherwise indicated under this item.	is of the international application in the		
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	e international application furnished to this		
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readble form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been				
2. Certain claims were foun				
4. With regard to the title,				
X the text is approved as sub	mitted by the applicant.			
the text has been establish	ed by this Authority to read as follows:			
5. With regard to the abstract, The text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figure of the drawings to be publis	shed with the abstract is Figure No.	1		
as suggested by the applic	ant.	None of the figures.		
because the applicant faile	•			
because this tigure better o	haracterizes the invention.			



International Application No GB 00/02290

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 D06P1/00 D06P3/82

D06L3/10

A63B39/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ IPC & 7 & D06P & D06L & A63B \end{array}$

IPC 7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
X	REINCKE K: "WOLLBLEICHE. OEKONOMISCHE, OEKOLOGISCH VERBESSERTE BLEICHVERFAHREN FUER WOLLE" TEXTILVEREDLUNG, CH, THURGAUER TAGBLATT, WEINFELDEN, vol. 34, no. 1/02, January 1999 (1999-01), pages 26-32, XP000828907 ISSN: 0040-5310 the whole document	1-27, 30-50

A rather accalions are accept to box o.	A dork learning mornibors and maded in annox.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
18 September 2000	25/09/2000
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Koegler-Hoffmann, S

International Application No Page 38 00/02290

2/2	ALLEY DOCUMENTS CONCIDENCE TO SE DELEVANT	IB 00/02290				
	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to daim No.				
x	ANGSTMANN D ET AL: "PRETREATMENT OF COTTON KNITGOODS FOR DYEING" INTERNATIONAL DYER,GB,TEXTILE BUSINESS PRESS LTD. LONDON, vol. 183, no. 3, 1 March 1998 (1998-03-01), pages 11,14-18, XP000776046 ISSN: 0020-658X the whole document	1,15-23, 27-39				
x //	US 5 264 001 A (ARIFOGLU MUSTAFA ET AL) 23 November 1993 (1993-11-23) 7 the whole document	1,2,4, 27,30,35				
x 1	US 5 413 333 A (JANES RICHARD ET AL) 9 May 1995 (1995-05-09) the whole document	30,33, 51,52				
x V	"CHEMICAL ABSTRACTS + INDEXES,US,AMERICAN CHEMICAL SOCIETY. COLUMBUS" CHEMICAL ABSTRACTS + INDEXES,US,AMERICAN CHEMICAL SOCIETY. COLUMBUS,	1,27,30, 35				
X .	✓US 3 912 447 A (SCHMIDT OSWALD) 14 October 1975 (1975-10-14) column 1, line 12 - line 20 column 3, line 38 - line 46; claims; examples	1,27,30,				
	·					

on patent family members

International Application No

Patent document cited in search report	t	Publication date		atent family nember(s)	Publication date
US 5264001	A	23-11-1993	US US AU AU EP JP NZ WO US US	4961752 A 5103522 A 618874 B 4956590 A 0454760 A 3504992 T 232161 A 9008216 A 5017194 A 5084066 A	09-10-1990 14-04-1992 09-01-1992 13-08-1990 06-11-1991 31-10-1991 26-08-1992 26-07-1990 21-05-1991 28-01-1992
US 5413333	A	09-05-1995	NONE		
US 3912447	A	14-10-1975	DE AU GB IT	2311130 B 6618274 A 1453130 A 1003742 B	01-08-1974 04-09-1975 20-10-1976 10-06-1976

PAT 'T COOPERATION TREATY

To:

From the	INTERN	IATIONAL	BUREAL
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PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year) 16 February 2001 (16.02.01)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office
International application No. PCT/GB00/02290	Applicant's or agent's file reference P22196A/BOU
International filing date (day/month/year) 23 June 2000 (23.06.00)	Priority date (day/month/year) 23 June 1999 (23.06.99)
Applicant	
BRASIER, Alan, John et al	

1.	The designated Office is hereby notified of its election made:
1	X in the demand filed with the International Preliminary Examining Authority on:
	27 December 2000 (27.12.00)
I	in a notice effecting later election filed with the International Bureau on:
2.	The election X was was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	•

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

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Facsimile No.: (41-22) 740.14.35

muR-8582US



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
P22196A		International filing date (day/mont				
PCT/GB	al application No.	23/06/2000	23/06/1999			
			20/00/1000			
D06P1/0		national classification and IPC				
Acuttonal						
Applicant	N INDUCTORAL O LIBERT	-	•			
MILLIKE	N INDUSTRIALS LIMITE	D et al.	·			
1. This i	nternational preliminary ex s transmitted to the applica	amination report has been prepare nt according to Article 36.	d by this International Preliminary Examining Authority			
2. This i	REPORT consists of a tota	of 6 sheets, including this cover s	sheet.			
,t⊠	%:	mind by ANNEVES in about of t	no deparintion, claims and/or drawings which have			
b	een amended and are the	basis for this report and/or sheets	ne description, claims and/or drawings which have containing rectifications made before this Authority			
(:	see Rule 70.16 and Section	n 607 of the Administrative Instruct	ions under the PCT).			
These	e annexes consist of a tota	l of 8 sheets.				
******	4					
	•					
3. This	eport contains indications	relating to the following items:				
ı	Basis of the report					
	☐ Priority					
III	· · · · · · · · · · · · · · · · · · ·	of opinion with regard to novelty, in	pinion with regard to novelty, inventive step and industrial applicability			
IV	☐ Lack of unity of inve	ntion ·				
· V	Reasoned statement citations and explan	at under Article 35(2) with regard to actions suporting such statement	novelty, inventive step or industrial applicability;			
VI	☐ Certain documents					
VII	☑ Certain defects in the second control of the second control	e international application				
VIII	☑ Certain observation	s on the international application				
Data of sub	omission of the demand	Date o	f completion of this report			
Date of Sui		Date o	tomposion of the report			
27/12/20	00	20.09.	2001			
	mailing address of the internatexamining authority:	onar Author	ized officer			
	European Patent Office		(S) Reach (S)			
<i>)</i>))	D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52		ler-Hoffmann, S			
	Fax: +49 89 2399 - 4465	· ·	ione No. +49 89 2399 8611			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02290

I. Basis	of the	report
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1.	the and	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:						
	1-25	5	as originally filed					
	Clai	ms, No.:						
	1-49)	as received on	02/08/2001	with letter of	02/08/2001		
	Dra	wings, sheets:						
	1/6-	6/6	as originally filed					
2.	With lang	n regard to the lan juage in which the	guage, all the elements international application	marked above were a was filed, unless oth	available or furnis erwise indicated	hed to this Authority in t under this item.	he	
	These elements were available or furnished to this Authority in the following language: , which is:							
		the language of a	translation furnished for	the purposes of the	international sear	ch (under Rule 23.1(b))	•	
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a 55.2 and/or 55.3)	translation furnished for	the purposes of inte	rnational prelimin	ary examination (under .	Rule	
3.	With	n regard to any nu rnational prelimina	cleotide and/or amino a ary examination was carr	acid sequence discloring acid sequence discloring the discloring the basis of the b	osed in the internation of the sequence li	ational application, the sting:		
		contained in the i	nternational application i	n written form.				
	filed together with the international application in computer readable form.							
	☐ furnished subsequently to this Authority in written form.							
	furnished subsequently to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement the listing has been f	at the information record urnished.	led in computer reada	able form is identi	cal to the written sequer	тсе	
4.	The	amendments hav	ve resulted in the cancell	ation of:				
		the description,	pages:					
		the claims,	Nos.:					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02290

		the drawings,	sheets:		
5. This report has been established as if (some of) the amendments had not been made, since they have to considered to go beyond the disclosure as filed (Rule 70.2(c)):				as filed (Rule 70.2(c)):	
		(Any replacement sh report.)	eet contair	ning such	amendments must be referred to under item 1 and annexed to this
6.	Add	itional observations, if	f necessar	y:	
.,	D	d statement up	dor Article	o 35(2) w	ith regard to novelty, inventive step or industrial applicability;
v.		tions and explanatio			
1.	Stat	ement			
	Nov	relty (N)	Yes: No:		2,3,7-31,41-49 1,4-6,32-40
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-49
	Indu	ustrial applicability (IA)	Yes:	Claims	1-49

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- D1: REINCKE K: 'WOLLBLEICHE. OEKONOMISCHE, OEKOLOGISCH VER-BESSERTE BLEICHVERFAHREN FUER WOLLE' TEXTILVEREDLUNG. CH, THURGAUER TAGBLATT, WEINFELDEN, vol. 34, no. 1/02, January 1999 (1999-01), pages 26-32.
- D2: ANGSTMANN D ET AL: 'PRETREATMENT OF COTTON KNITGOODS FOR DYEING' INTERNATIONAL DYER, GB, TEXTILE BUSINESS PRESS LTD. LONDON, vol. 183, no. 3, 1 March 1998 (1998-03-01), pages 11,14-18.
- D3: US-A-5 264 001
- D4: US-A-5 413 333
- 'CHEMICAL ABSTRACTS + INDEXES,US,AMERICAN CHEMICAL D5: SOCIETY. COLUMBUS' CHEMICAL ABSTRACTS + INDEXES, US, AMERICAN CHEMICAL SOCIETY. COLUMBUS.
- D6: US-A-3 912 447
 - D7: US-A-3912447

D1 discloses a method of treating fabric material wherein the material is treated with a bleaching agent and an optical brightening agent (page 2, 2.2 to page 4, 5.). According to the description of the current application (see page 9. last paragraph) the "dyestuff referred to is an optical brightening agent in case of a white fabric material.

Thus, in view of D1, the subject matter of claims 1, 4 to 14, 20, 24, 32 to 45 is not novel and/or does not involve an inventive step (Articles 33(2) and 33(3) PCT).

Dependent claims 15 to 19, 21 to 23 contain features which are obvious in the art (see, for example D2, the use of Basopal).

Document D1 neither suggests nor discloses a method of dyeing a fabric material wherein the fluorescent dye is a yellow dye.

The subject matter of claims 2 and 3 seems to fulfil the requirements of Article 33(2) and 33(3) PCT.

Re Item VII

Certain defects in the international application

The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT.

Re Item VIII

Certain observations on the international application

The present set of claims is unaccepted for the reasons given below.

1. Although claims 24 and 27, 46 and 48 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought. The aforementioned claims therefore lack conciseness.

Hence, claims 24, 27, 46 and 48 do not meet the requirements of Article 6 PCT.

In order to overcome this objection, it would appear appropriate to file an amended set of claims defining the relevant subject-matter in terms of a single independent claim in each category followed by dependent claims covering features which are merely optional (Rule 6.4 PCT).

2. According to the teaching of the whole description of the current application (for example: page 5, last paragraph, page 11, first paragraph, page 14 last paragraph) a wool content of at least 20% by weight of weft warns is required for a woven fabric having warp and weft yarns.

Moreover, according to page 4, last paragraph the invention is based on the fact that the felt used to produce tennis balls typically has wool content of 40% or

EXAMINATION REPORT - SEPARATE SHEET

higher.

It is clear therefore from the description that said features are essential to the definition of the invention.

Since independent claims 27, 32, 46 and 48 do not contain these features they do not meet the requirement following from Article 6 PCT taken in combination with Rule 6.3(b) PCT that any independent claim must contain all the technical features essential to the definition of the invention.

- Claims 27 and 32 do not meet the requirements of Article 6 PCT in that the 3. matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of three different parameters. It is, however, clear that said parameters are dependent from several conditions as, for example, the material, the dye, etc. (see page 6, lines 24 to 28 of the current application) which conditions are not mentioned in the claims.
- Claims for products defined in terms of processes for their preparation 4. (known as "product-by-process" claims) are admissible only if there exists no other possibility to define the product satisfactorily by reference to its composition, structure or some other testable parameter. Claims 24 and 48 should be deleted.

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 28 December 2000 (28.12.2000)

PCT

(10) International Publication Number WO 00/79038 A1

(51) International Patent Classification⁷: 3/82, D06L 3/10, A63B 39/00

(21) International Application Number: PCT/GB00/02290

(22) International Filing Date: 23 June 2000 (23.06.2000)

(25) Filing Language:

English

D06P 1/00,

(26) Publication Language:

English

(30) Priority Data:

9914510.4 23 June 1999 (23.06.1999) GB 0009783.2 20 April 2000 (20.04.2000) GB 0011752.3 17 May 2000 (17.05.2000) GB

- (71) Applicant (for all designated States except US): MIL-LIKEN INDUSTRIALS LIMITED [GB/GB]; Wellington Street, Bury, Lancashire BL8 2AY (GB).
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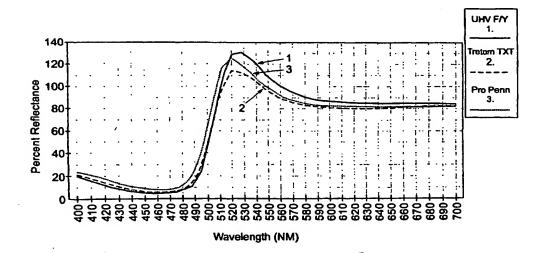
- (74) Agent: MURGITROYD & COMPANY; 373 Scotland Street, Glasgow G5 8QA (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DYED FABRIC MATERIAL, METHOD OF PRODUCING THE SAME AND USE OF THE FABRIC MATERIAL IN THE MANUFACTURE OF SPORTS BALLS



(57) Abstract: A method of dyeing fabric material which comprises the step of contacting said fabric material with a bleaching agent prior to or simultaneously with contacting said fabric material with a dyestuff providing said colour. The fabric material so obtained is suitable for use in sports ball manufacture, especially tennis ball manufacture. The coloured fabric material preferably includes wool fibres and exhibits the following characteristics after dyeing: i) a chroma value of 100 or more; ii) a lightness value of 95 or more; and iii) a reflectance value of 120 or more. Preferably the dye is a yellow fluorescent dye.

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Cla:	ims

2

1. A method of dyeing fabric material which
comprises the step of contacting said fabric
material with a bleaching agent prior to or
simultaneously with a dyestuff providing said
colour.

8

9 2. The method as claimed in Claim 1, wherein said 10 material is made from a mixture of fibres of 11 different types.

12

13 3. The method as claimed in either one of Claims 1 14 and 2, wherein said material is a felt.

15

16 4. The method as claimed in any one of Claims 1 to 17 3, wherein said material comprises a mixture of 18 wool and synthetic fibres.

19

The method as claimed in Claim 4, wherein said synthetic fibres are polyamide fibres.

22

23 6. The method as claimed in Claim 5, wherein said 24 polyamide fibres are Nylon 6,6 fibres.

25

7. The method as claimed in any one of Claims 1 to 6, wherein the content of wool fibres in said material is at least 20% by weight.

29

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27

1	8.	The method as claimed in any one of Claims 1 to
	٥.	7, wherein the content of wool fibres in said
2		material is at least 25% by weight.
3		material is at least 25% by weight.
4		my while a claimed in any one of Claims 1 to
5	9.	The method as claimed in any one of Claims 1 to
6		8, wherein the content of wool fibres in said
7		material is at least 40% by weight.
8		
9	10.	
10		6, wherein said material is a woven felt
11		comprising warp and weft yarns.
12		
13	11.	The method as claimed in Claim 10, wherein said
14		weft yarns comprise at least 20% by weight of
15		wool.
16		
17	12.	The method as claimed in Claim 10, wherein said
18		weft yarns comprise at least 30% by weight of
19		wool.
20		·
21	13.	The method as claimed in Claim 10, wherein said
22		weft yarns comprise at least 40% by weight of
23		wool.
24		
25	14.	The method as claimed in any one of Claims 1 to
26		13, wherein said material is processed in piece
27		form.
28		
29	15.	The method as claimed in any one of Claims 1 to
	15.	14, wherein said material is contacted with a
30		•
31		partitioning agent.

1	16.	The method as claimed in Claim 15, wherein said
2		partitioning agent is an alkylarylsulphonate in
3		water and comprises 50-60% by weight of the salt
4		of dodecylbenzenesulphonic and triethanolamine.
5		
6	17.	The method as claimed in any one of Claims 1 to
7		16, wherein said material is treated using a
8		jet-dyeing apparatus.
9		
LO	18.	The method as claimed in Claim 17, wherein a
L1		liquor ratio of from 6:1 to 8:1 is used to run
L2		said jet-dyeing apparatus.
L3		
L 4	19.	The method as claimed in Claim 15, wherein the
15		pH of the liquor is of from 4.2 to 4.5.
16		
17	20.	The method as claimed in any one of Claims 1 to
18		19, wherein said material is contacted with the
19		bleaching agent prior to said material being
20		contacted with said dyestuff.
21		
22	21.	The method as claimed in any one of Claims 15 to
23		16, wherein said material is contacted with the
24		partitioning agent prior to said material being
25		contacted with said dyestuff.
26		
27	22.	The method as claimed in any one of Claims 15,
28		16 and 18, wherein said bleaching agent is added
29		simultaneously or quasi-simultaneously with the
30		partitioning agent.
31		<u> </u>
3 1		25

29

1	23.	The method as claimed in any one of Claims 1 to
2		22, wherein said bleaching agent is an inorganic
3		reducing agent with chelating agents and
4		comprises 30-40% by weight tetrasodium ethylene-
5		diaminetetraacetate and 30-40% by weight
6		disodium disulphite.
7		
8	24.	The method as claimed in any one of Claims 1 to
9		23, wherein the dyestuff is a fluorescent dye.
10		
11	25.	The method as claimed in any one of Claims 1 to
12		24, wherein the dyestuff is a yellow dye.
13		
14	26.	The method as claimed in either one of Claims 24
15		and 25, wherein said yellow dye has a colour
16		index number acid yellow 250.
17		
18	27.	A coloured fabric material obtainable according
19		to the method described in any one of Claims 1
20		to 26.
21		
22	28.	
23		Claim 27 for the manufacture of a sports ball.
24		
25	29.	The use claimed in Claim 28, wherein said sports
26		ball is a tennis ball.
27		
28	30.	A coloured (non-white) fabric material suitable
29		for use in sports ball manufacture, wherein said
30		material includes wool fibres and exhibits the
31		following characteristics:

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1		i) a chroma value of 100 or more;
2		ii) a lightness value of 95 or more; and
3		iii) a reflectance value of 120 or more.
4		
5	31.	The fabric material of Claim 30, wherein said
6		chroma value is 105 or more.
7		
8	32.	The fabric material as claimed in either one of
9		Claims 30 and 31, wherein said lightness value
10		is 96 or more.
11		
12	33.	The fabric material as claimed in any one of
13		Claims 30 to 32, wherein said reflectance value
14		is 125 or more.
15		
16	34.	The fabric material as claimed in any one of
17		Claims 30 to 32, which exhibits the following
18		characteristics:
19		i) a chroma value of 110 or more;
20		ii) a lightness value of 97 or more; and
21		iii) a reflectance value of 128 or more.
22		
23	35.	A white fabric material suitable for use in
24		sports ball manufacture, wherein said material
25		includes wool fibres and exhibits the following
26		characteristics:
27		i) a chroma value of 14 or less;
28		ii) a lightness value of 85 or more;
29		and
30		iii) a reflectance value of 100 or
31		more.

1	36.	A white fabric material as claimed in Claim 35,
2		wherein said chroma value is 8 or lower.
3		
4	37.	A white fabric material as claimed in either one
5		of Claims 35 and 36, having a lightness value of
6		92 or greater.
7		
8	38.	A white fabric material as claimed in any one of
9		Claims 35 to 37, having a reflectance value of
10		85 or more.
11		
12	39.	
13		Claims 35 to 39, which exhibits the following
14		characteristics:
15		i) a chroma value of 5 or less;
16		ii) a lightness value of 93 or more; and
17		iii) a reflectance value of 90 or more.
18		
19	40.	
20		Claims 30 to 39, wherein said material is made
21		of a mixture of fibres of different types.
22		
23	41.	A fabric material as claimed in any one of
24		Claims 30 to 41, wherein said material is a
25		felt.
26		
27	42.	A fabric material as claimed in any one of
28		Claims 30 to 41, wherein said material comprises
29		a mixture of wool and synthetic fibres.
30		

43.	A fabric material as claimed in Claim 42,
	wherein said synthetic fibres are polyamide
	fibres.
44.	A fabric material as claimed in Claim 43,
	wherein said polyamide fibres are Nylon 6,6
	fibres.
45.	A fabric material as claimed in any one of
	Claims 30 to 45, wherein the content of wool
	fibres in said material is at least 20% by
	weight.
46.	A fabric material as claimed in any one of
	Claims 30 to 45, wherein the content of wool
	fibres in said material is at least 40% by
	weight.
47.	A fabric material as claimed in any one of
	Claims 30 to 44, wherein said material is a
	woven felt comprising warp and weft yarns.
48.	A fabric material as claimed in Claim 47,
	wherein said weft yarns comprise at least 20% by
	weight of wool.
49.	A fabric material as claimed in Claim 48,
	wherein said weft yarns comprise at least 30% by
	weight of wool.
	44. 45. 47.

1	50.	A fabric material as claimed in Claim 49,
2		wherein said weft yarns comprise at least 40% by
3		weight of wool.
4		
5	51.	A sports ball having a fabric material outer
6		surface, said fabric material being a fabric
7		material as defined in any one of Claims 30 to
8		50.
9		
10	52.	A sports ball as claimed in Claim 51 which is a
11		tennis ball.
12		
13	53.	A sports ball having a fabric material outer
14		surface, said fabric material being a fabric
15		material as obtained by the method of any one of
16		Claims 1 to 26.
17		
18	54.	A sports ball as claimed in Claim 53 which is a
19		tennis ball.
20		